

# Review of Non-Construction Alternatives

Mike Weedall  
Vice President, Energy Efficiency  
Bonneville Power Administration

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# Overview

Briefly highlight some of the approaches that can serve as tools to delay or defer transmission construction.

# Three Major Categories of Options

- Demand Response or Load Management
- Strategic Energy Efficiency or Conservation
- Generation or Distributed Generation

# Demand Response/Load Management

- Direct shifting of load from peak periods
- Can be voluntary or mandated program participation
- May also be effected through pricing signals
- End-use loads more likely to be large commercial and industrial loads, but may also be aggregation of residential loads.
- BPA's Demand Exchange Program had  
> 1,000 MW during height of the energy crunch  
2 years ago.

# Strategic Energy Efficiency

- Energy efficiency is the reduction in energy use across all periods of time, not just peak loads.
- Less likely to provide significant peak reduction, but it can contribute to the solution.
- Strategic targeting of locational energy efficiency is a way to enhance the potential impact.
- Similarly, targeting high-use equipment such as heating/cooling technologies can also increase program impact.

# Generation/Distributed Generation

- Generation sources sited strategically and sized appropriately can contribute to non-construction alternatives.
- Challenge economically to justify resources running for limited periods.
- Potential significant environmental benefits to this type of siting of resources.
- Economies and performance of distributed generation technologies moving to make this approach viable.

# In Summary

- Three strategies for non-construction alternatives likely to involve a combination of the three, not a single tool.
- BPA working to network and benchmark with others working in this area to gain from their knowledge and experience.
  - E.g., Regulatory Assistance Project
- BPA'S Energy Efficiency Department to work closely with TBL on our work here in the Pacific Northwest.